

□ Spiral **membrane** module back **washing** method for separation apparatus e.g. precision filtration apparatus - involves supplying back wash gas and raw water in opposing directions via module until residual water permeation is zero.

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NOVELTY - Raw water and back wash gas are supplied in opposing direction via a membrane module (40). The gas supply is continued until the residual water permeation reduces and only gas is received on the downstream end.

DETAILED DESCRIPTION - A permeable water flow path agent (15) is distributed into a bag like film (10). Raw water is admitted into the spiral membrane module (40) formed by winding the bag-like film, around a shaft (20). A back washing gas is supplied in the opposite direction to promote reverse flow of water. The gas supply continues until the residual water permeation reduces and gas flow takes place through gas liquid mixture.

USE - Used in precision filtration apparatus, ultrafiltration equipment and reverse osmosis membrane separation apparatus.

ADVANTAGE - Elimination of catchment pipe. Reduces propagation of permeated water. Aids efficient back wash even for

membrane module with large film surface. DESCRIPTION OF DRAWING(S)

- The drawing shows the schematic apparatus when carrying out back wash.
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